

09/470506

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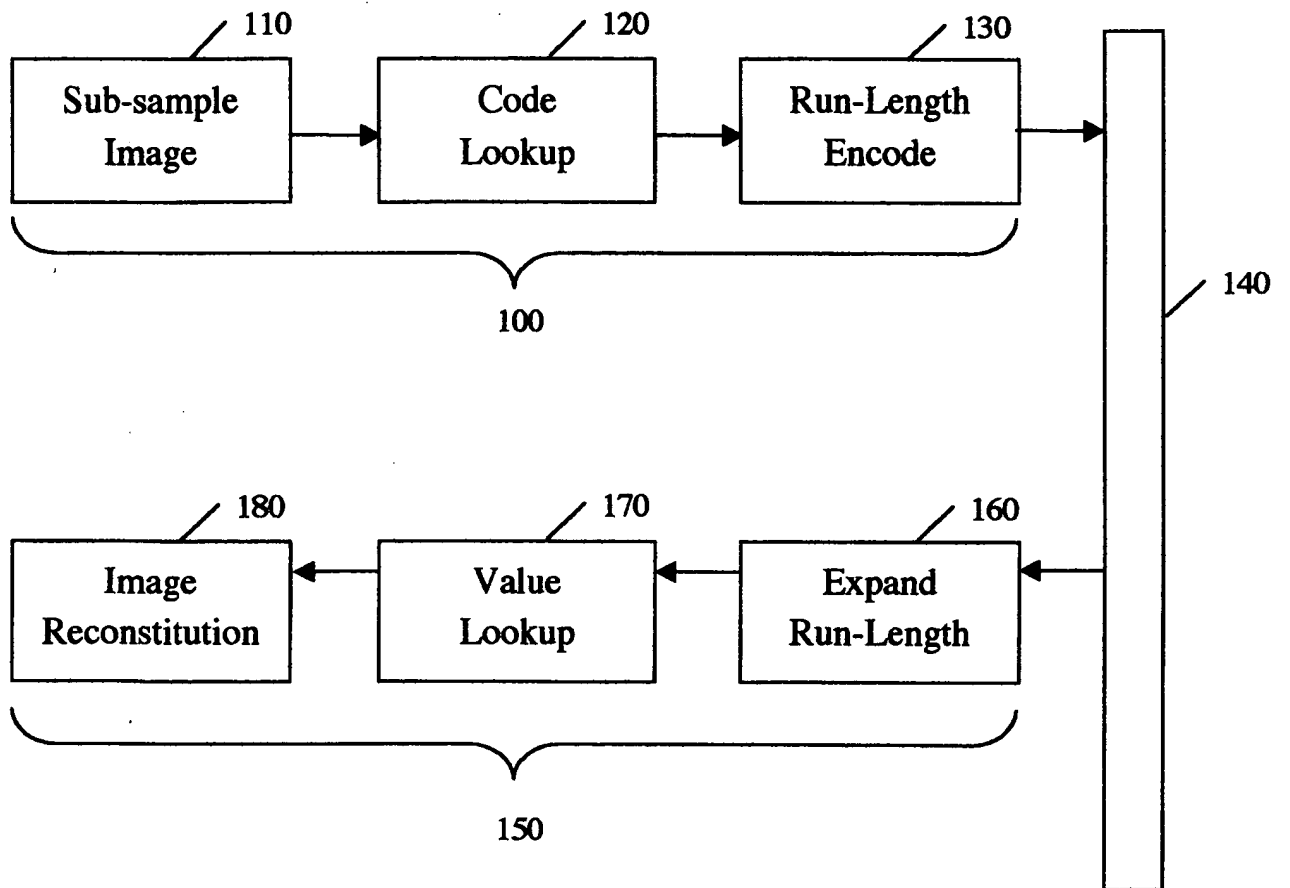


Fig 1

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Fig 2A

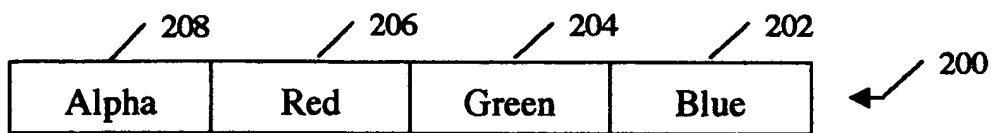


Fig 2B

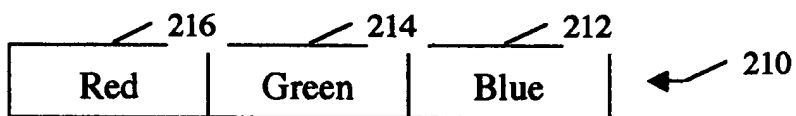


Fig 2C

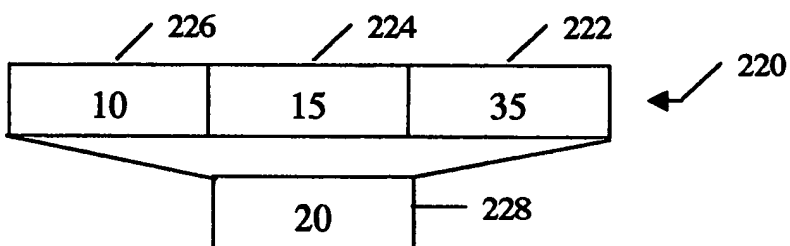


Fig 2D

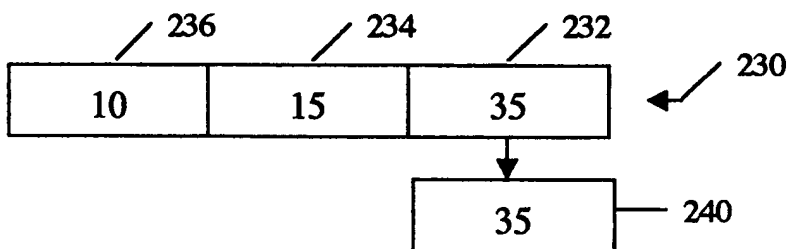


Fig 2E

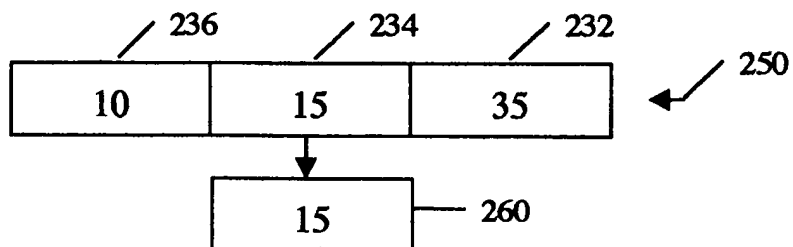


Fig 2F

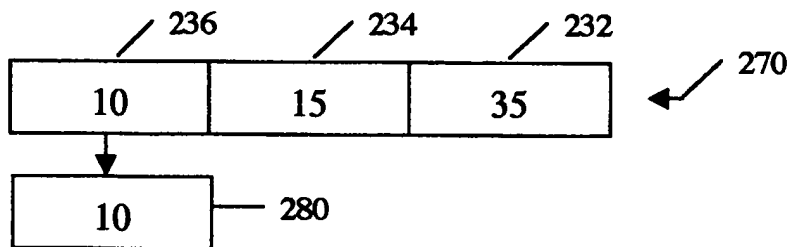


Fig 2G

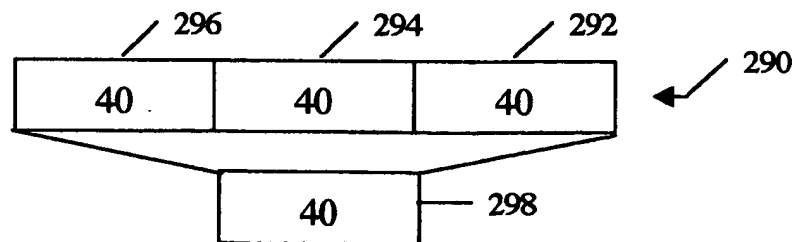


Fig 2H



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```
unsigned char encodeTable[ ] =  
{  
    0, 0, 0, 0, 0,  
    1, 1, 1, 1, 1, 1, 1, 1,  
    2, 2, 2, 2, 2, 2, 2, 2,  
    3, 3, 3, 3, 3, 3, 3, 3, 3,  
    4, 4, 4, 4, 4, 4, 4, 4,  
    5, 5, 5, 5, 5, 5, 5, 5,  
    6, 6, 6, 6, 6, 6, 6, 6,  
    7, 7, 7, 7, 7, 7, 7, 7, 7,  
    8, 8, 8, 8, 8, 8, 8, 8,  
    9, 9, 9, 9, 9, 9, 9, 9,  
    10, 10, 10, 10, 10, 10, 10, 10,  
    11, 11, 11, 11, 11, 11, 11, 11, 11,  
    12, 12, 12, 12, 12, 12, 12, 12,  
    13, 13, 13, 13, 13, 13, 13, 13,  
    14, 14, 14, 14, 14, 14, 14, 14,  
    15, 15, 15, 15, 15, 15, 15, 15, 15,  
    16, 16, 16, 16, 16, 16, 16, 16,  
    17, 17, 17, 17, 17, 17, 17, 17,  
    18, 18, 18, 18, 18, 18, 18, 18,  
    19, 19, 19, 19, 19, 19, 19, 19, 19,  
    20, 20, 20, 20, 20, 20, 20, 20,  
    21, 21, 21, 21, 21, 21, 21, 21,  
    22, 22, 22, 22, 22, 22, 22, 22,  
    23, 23, 23, 23, 23, 23, 23, 23, 23,  
    24, 24, 24, 24, 24, 24, 24, 24,  
    25, 25, 25, 25, 25, 25, 25, 25,  
    26, 26, 26, 26, 26, 26, 26, 26,  
    27, 27, 27, 27, 27, 27, 27, 27, 27,  
    28, 28, 28, 28, 28, 28, 28, 28,  
    29, 29, 29, 29, 29, 29, 29, 29,  
    30, 30, 30, 30, 30, 30, 30, 30,  
    31, 31, 31, 31  
};
```

370

300

330 340 360

```
// 0 - 4 -> 0  
// 5 - 12 -> 8  
// 13 - 20 -> 16  
// 21 - 29 -> 24  
// 30 - 37 -> 33  
// 38 - 45 -> 41  
// 46 - 53 -> 49  
// 54 - 62 -> 57  
// 63 - 70 -> 66  
// 71 - 78 -> 74  
// 79 - 86 -> 82  
// 87 - 95 -> 90  
// 96 - 103 -> 99  
// 104 - 111 -> 107  
// 112 - 119 -> 115  
// 120 - 128 -> 123  
// 129 - 136 -> 132  
// 137 - 144 -> 140  
// 145 - 152 -> 148  
// 153 - 161 -> 156  
// 162 - 169 -> 165  
// 170 - 177 -> 173  
// 178 - 185 -> 181  
// 186 - 194 -> 189  
// 195 - 202 -> 198  
// 203 - 210 -> 206  
// 211 - 218 -> 214  
// 219 - 227 -> 222  
// 228 - 235 -> 231  
// 236 - 243 -> 239  
// 244 - 251 -> 247  
// 252 - 255 -> 255
```

310

320

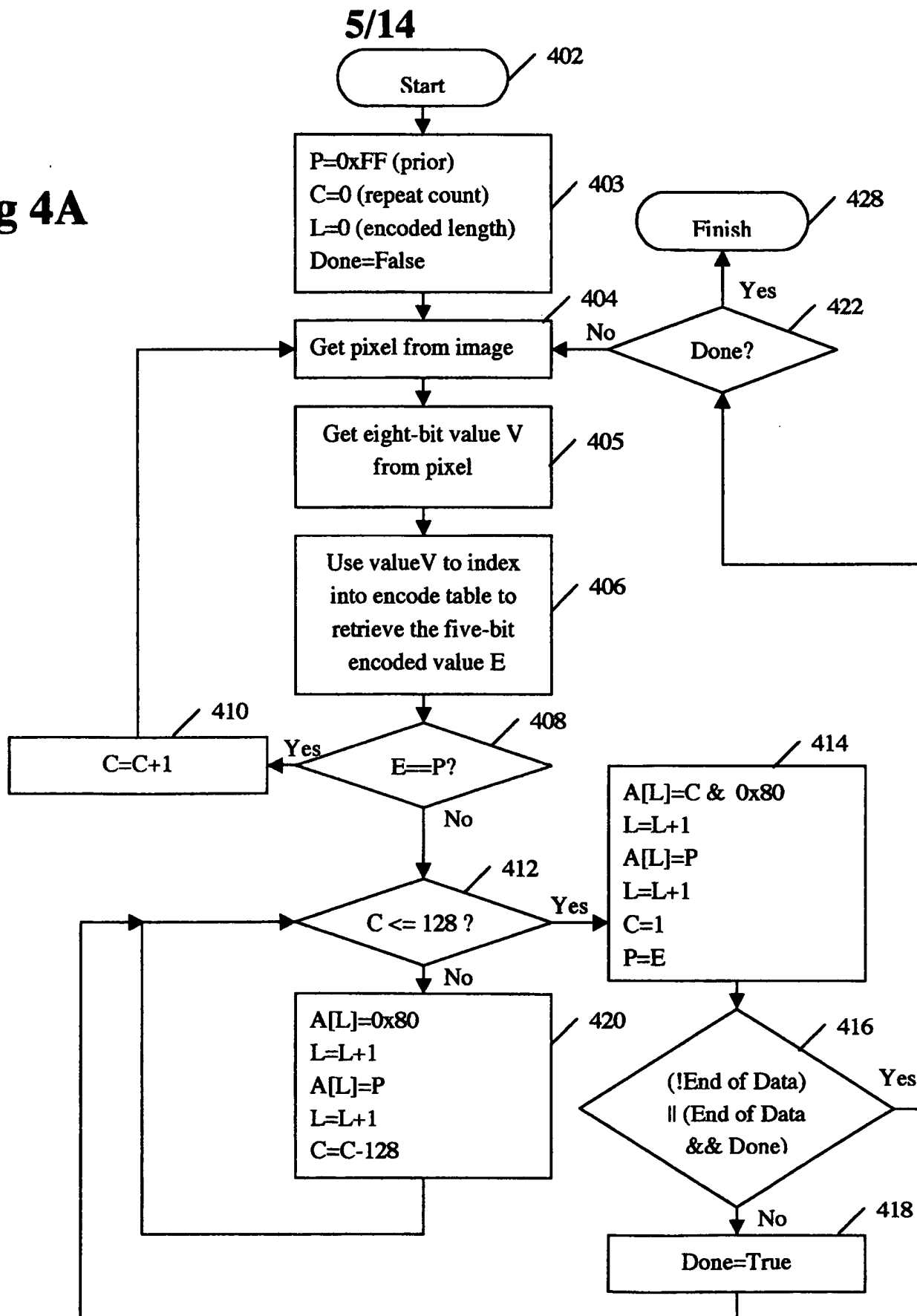
Fig 3A

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	370	330			350					360
	↓	↓			↓					↓
0	0	1	2	3	4					0
1	5	6	7	8	9	10	11	12		8
2	13	14	15	16	17	18	19	20		16
3	21	22	23	24	25	26	27	28	29	24
4	30	31	32	33	34	35	36	37		33
5	38	39	40	41	42	43	44	45		41
6	46	47	48	49	50	51	52	53		49
7	54	55	56	57	58	59	60	61	62	57
8	63	64	65	66	67	68	69	70		66
9	71	72	73	74	75	76	77	78		74
10	79	80	81	82	83	84	85	86		82
11	87	88	89	90	91	92	93	94	95	90
12	96	97	98	99	100	101	102	103		99
13	104	105	106	107	108	109	110	111		107
14	112	113	114	115	116	117	118	119		115
15	120	121	122	123	124	125	126	127	128	123
16	129	130	131	132	133	134	135	136		132
17	137	138	139	140	141	142	143	144		140
18	145	146	147	148	149	150	151	152		148
19	153	154	155	156	157	158	159	160	161	156
20	162	163	164	165	166	167	168	169		165
21	170	171	172	173	174	175	176	177		173
22	178	179	180	181	182	183	184	185		181
23	186	187	188	189	190	191	192	193	194	189
24	195	196	197	198	199	200	201	202		198
25	203	204	205	206	207	208	209	210		206
26	211	212	213	214	215	216	217	218		214
27	219	220	221	222	223	224	225	226	227	222
28	228	229	230	231	232	233	234	235		231
29	236	237	238	239	240	241	242	243		239
30	244	245	246	247	248	249	250	251		247
31	252	253	254	255						255

Fig 3B

Fig 4A



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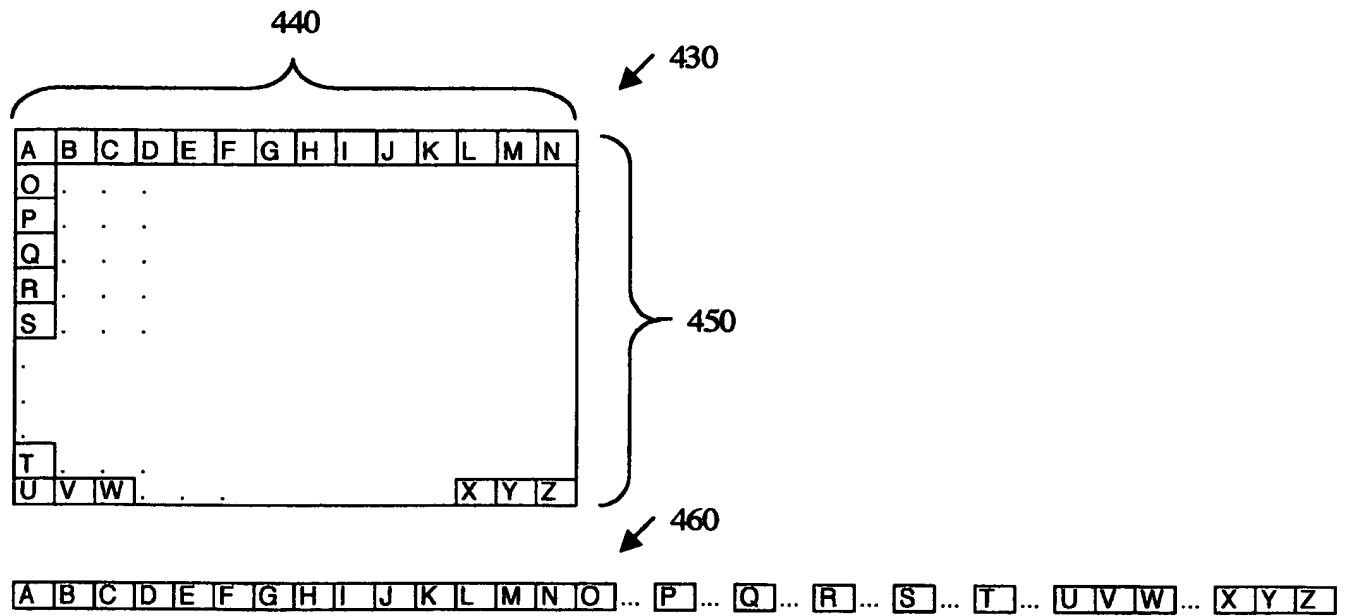


Fig 4B

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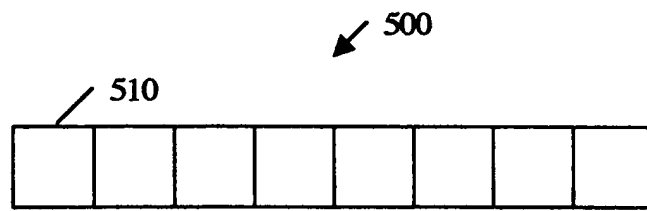


Fig 5A

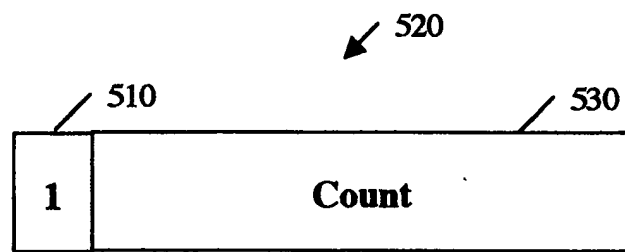


Fig 5B

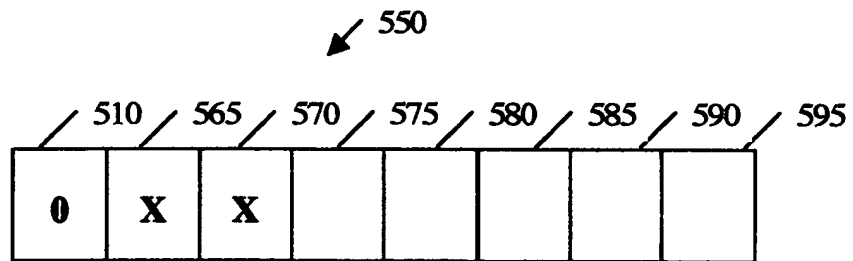


Fig 5C

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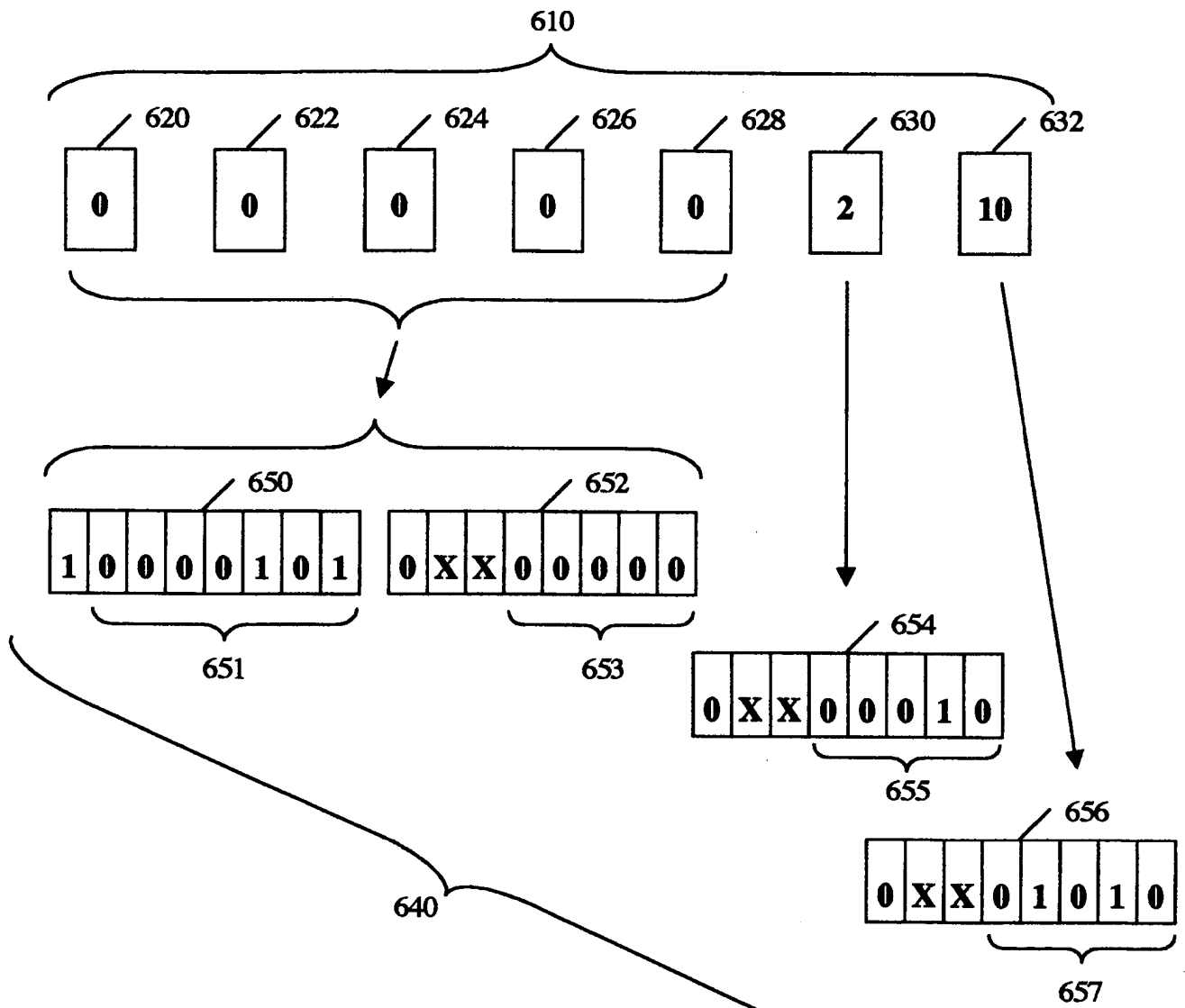


Fig 6

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```

int decodeTable[ ] =
{
    0xff << 24 | 0 << 16 | 0 << 8 | 0,
    0xff << 24 | 8 << 16 | 8 << 8 | 8,
    0xff << 24 | 16 << 16 | 16 << 8 | 16,
    0xff << 24 | 24 << 16 | 24 << 8 | 24,
    0xff << 24 | 33 << 16 | 33 << 8 | 33,
    0xff << 24 | 41 << 16 | 41 << 8 | 41,
    0xff << 24 | 49 << 16 | 49 << 8 | 49,
    0xff << 24 | 57 << 16 | 57 << 8 | 57,
    0xff << 24 | 66 << 16 | 66 << 8 | 66,
    0xff << 24 | 74 << 16 | 74 << 8 | 74,
    0xff << 24 | 82 << 16 | 82 << 8 | 82,
    0xff << 24 | 90 << 16 | 90 << 8 | 90,
    0xff << 24 | 99 << 16 | 99 << 8 | 99,
    0xff << 24 | 107 << 16 | 107 << 8 | 107,
    0xff << 24 | 115 << 16 | 115 << 8 | 115,
    0xff << 24 | 123 << 16 | 123 << 8 | 123,
    0xff << 24 | 132 << 16 | 132 << 8 | 132,
    0xff << 24 | 140 << 16 | 140 << 8 | 140,
    0xff << 24 | 148 << 16 | 148 << 8 | 148,
    0xff << 24 | 156 << 16 | 156 << 8 | 156,
    0xff << 24 | 165 << 16 | 165 << 8 | 165,
    0xff << 24 | 173 << 16 | 173 << 8 | 173,
    0xff << 24 | 181 << 16 | 181 << 8 | 181,
    0xff << 24 | 189 << 16 | 189 << 8 | 189,
    0xff << 24 | 198 << 16 | 198 << 8 | 198,
    0xff << 24 | 206 << 16 | 206 << 8 | 206,
    0xff << 24 | 214 << 16 | 214 << 8 | 214,
    0xff << 24 | 222 << 16 | 222 << 8 | 222,
    0xff << 24 | 231 << 16 | 231 << 8 | 231,
    0xff << 24 | 239 << 16 | 239 << 8 | 239,
    0xff << 24 | 247 << 16 | 247 << 8 | 247,
    0xff << 24 | 255 << 16 | 255 << 8 | 255
};

```

Fig 7

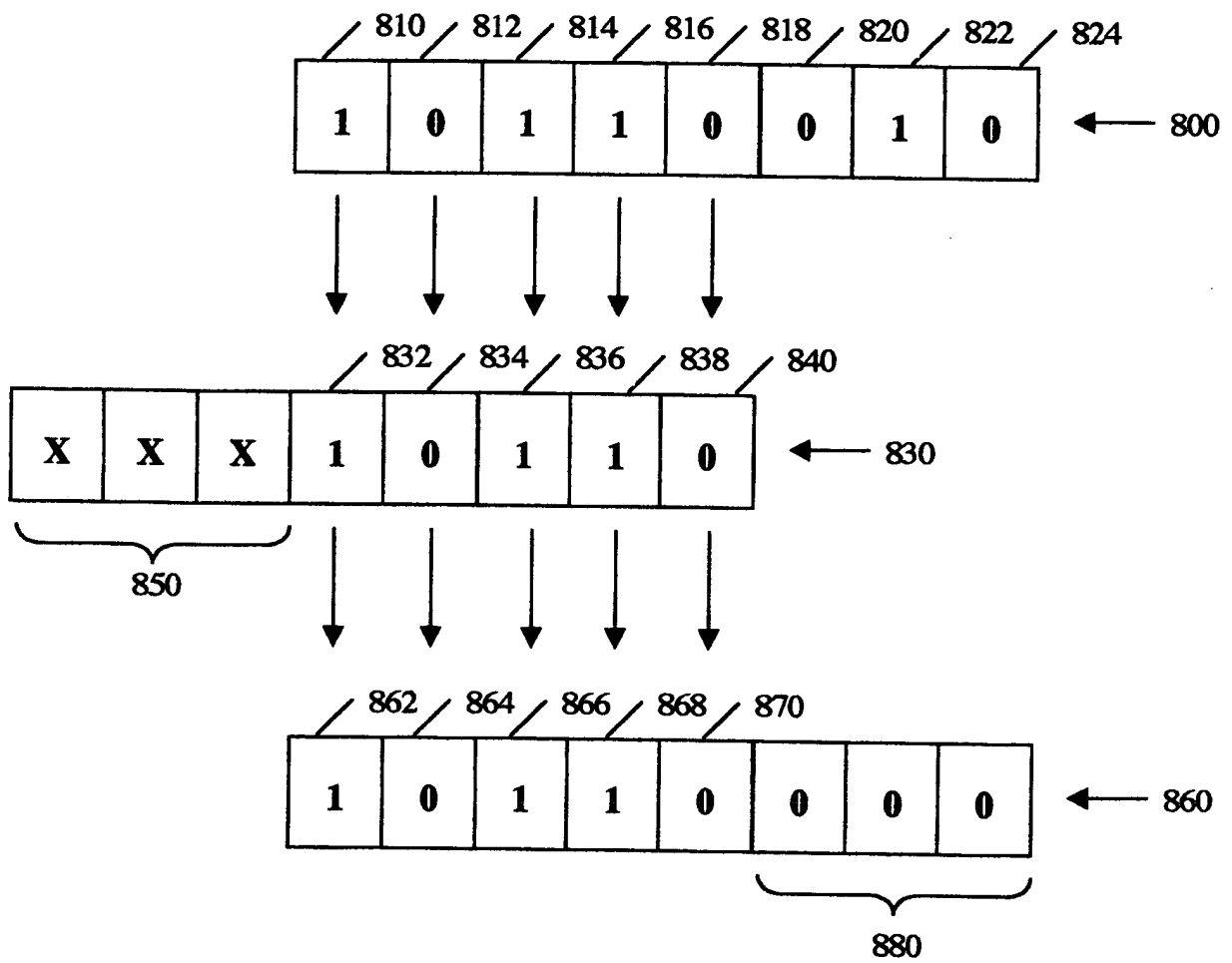
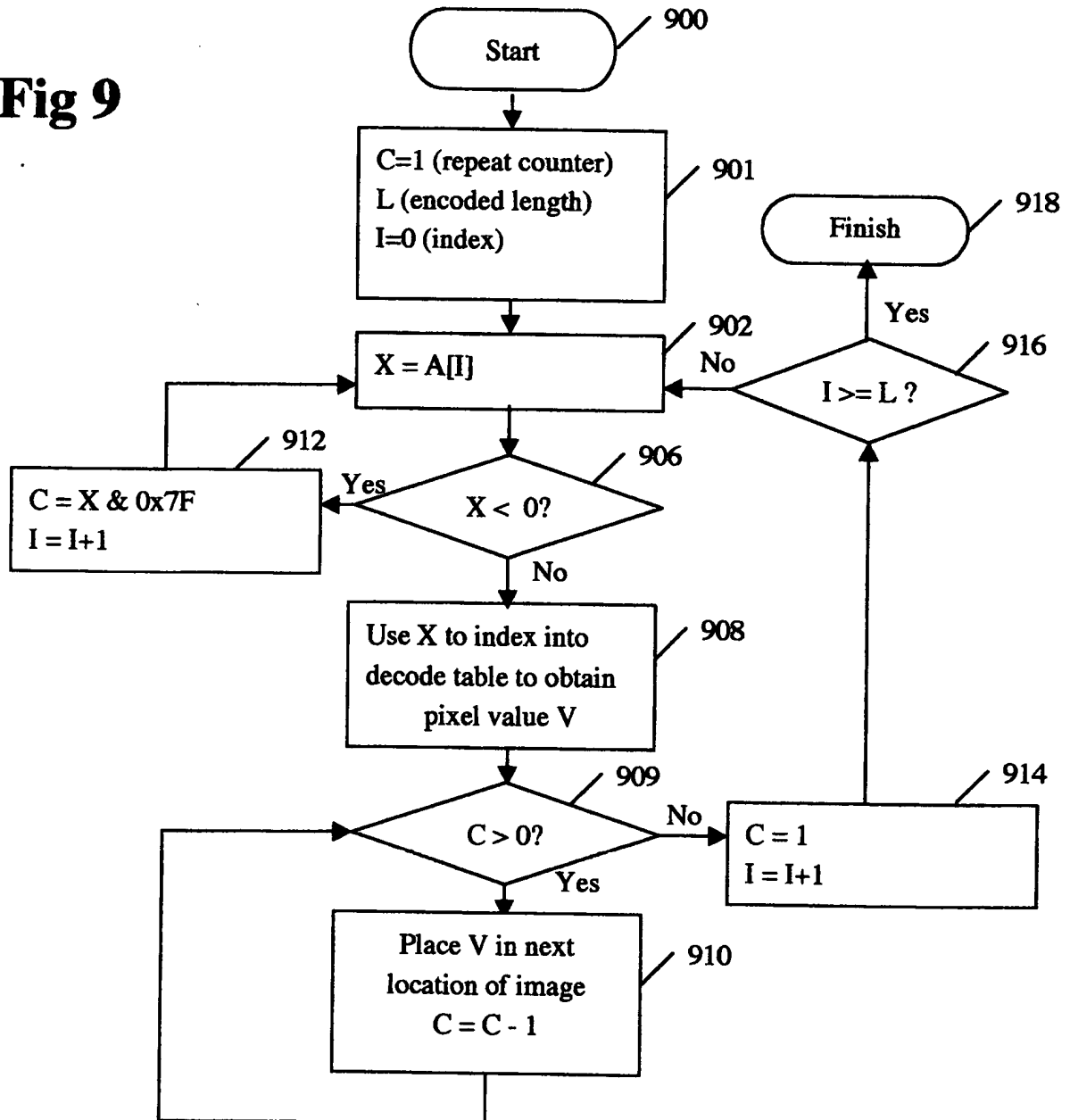


Fig 8

Fig 9

1000

0	24
1	18
2	25
3	5
4	3
5	6
6	12
7	30
8	21
9	27
10	1
11	16
12	31
13	4
14	14
15	20
16	10
17	28
18	23
19	9
20	15
21	22
22	29
23	13
24	19
25	26
26	2
27	17
28	0
29	8
30	11
31	7

Fig 10A

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↙ 1010

```
unsigned char encodeTable[ ] =
{
```

24, 24, 24, 24, 24,	// 0 - 4 -> 0
18, 18, 18, 18, 18, 18, 18, 18,	// 5 - 12 -> 8
25, 25, 25, 25, 25, 25, 25, 25,	// 13 - 20 -> 16
5, 5, 5, 5, 5, 5, 5, 5, 5,	// 21 - 29 -> 24
3, 3, 3, 3, 3, 3, 3, 3, 3,	// 30 - 37 -> 33
6, 6, 6, 6, 6, 6, 6, 6, 6,	// 38 - 45 -> 41
12, 12, 12, 12, 12, 12, 12, 12,	// 46 - 53 -> 49
30, 30, 30, 30, 30, 30, 30, 30, 30,	// 54 - 62 -> 57
21, 21, 21, 21, 21, 21, 21, 21,	// 63 - 70 -> 66
27, 27, 27, 27, 27, 27, 27, 27,	// 71 - 78 -> 74
1, 1, 1, 1, 1, 1, 1, 1,	// 79 - 86 -> 82
16, 16, 16, 16, 16, 16, 16, 16, 16,	// 87 - 95 -> 90
31, 31, 31, 31, 31, 31, 31, 31,	// 96 - 103 -> 99
4, 4, 4, 4, 4, 4, 4, 4,	// 104 - 111 -> 107
14, 14, 14, 14, 14, 14, 14, 14,	// 112 - 119 -> 115
20, 20, 20, 20, 20, 20, 20, 20, 20,	// 120 - 128 -> 123
10, 10, 10, 10, 10, 10, 10, 10,	// 129 - 136 -> 132
28, 28, 28, 28, 28, 28, 28, 28,	// 137 - 144 -> 140
23, 23, 23, 23, 23, 23, 23, 23,	// 145 - 152 -> 148
9, 9, 9, 9, 9, 9, 9, 9, 9,	// 153 - 161 -> 156
15, 15, 15, 15, 15, 15, 15, 15,	// 162 - 169 -> 165
22, 22, 22, 22, 22, 22, 22, 22,	// 170 - 177 -> 173
29, 29, 29, 29, 29, 29, 29, 29,	// 178 - 185 -> 181
13, 13, 13, 13, 13, 13, 13, 13, 13,	// 186 - 194 -> 189
19, 19, 19, 19, 19, 19, 19, 19,	// 195 - 202 -> 198
26, 26, 26, 26, 26, 26, 26, 26,	// 203 - 210 -> 206
2, 2, 2, 2, 2, 2, 2, 2,	// 211 - 218 -> 214
17, 17, 17, 17, 17, 17, 17, 17, 17,	// 219 - 227 -> 222
0, 0, 0, 0, 0, 0, 0, 0,	// 228 - 235 -> 231
8, 8, 8, 8, 8, 8, 8, 8,	// 236 - 243 -> 239
11, 11, 11, 11, 11, 11, 11, 11,	// 244 - 251 -> 247
7, 7, 7, 7	// 252 - 255 -> 255

```
};
```

Fig 10B

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↙ 1020

```
int decodeTable[ ] =
{
    0xff << 24 | 231 << 16 | 231 << 8 | 231,
    0xff << 24 | 82 << 16 | 82 << 8 | 82,
    0xff << 24 | 214 << 16 | 214 << 8 | 214,
    0xff << 24 | 33 << 16 | 33 << 8 | 33,
    0xff << 24 | 107 << 16 | 107 << 8 | 107,
    0xff << 24 | 24 << 16 | 24 << 8 | 24,
    0xff << 24 | 41 << 16 | 41 << 8 | 41,
    0xff << 24 | 255 << 16 | 255 << 8 | 255,
    0xff << 24 | 239 << 16 | 239 << 8 | 239,
    0xff << 24 | 156 << 16 | 156 << 8 | 156,
    0xff << 24 | 132 << 16 | 132 << 8 | 132,
    0xff << 24 | 247 << 16 | 247 << 8 | 247,
    0xff << 24 | 49 << 16 | 49 << 8 | 49,
    0xff << 24 | 189 << 16 | 189 << 8 | 189,
    0xff << 24 | 115 << 16 | 115 << 8 | 115,
    0xff << 24 | 165 << 16 | 165 << 8 | 165,
    0xff << 24 | 90 << 16 | 90 << 8 | 90,
    0xff << 24 | 222 << 16 | 222 << 8 | 222,
    0xff << 24 | 8 << 16 | 8 << 8 | 8,
    0xff << 24 | 198 << 16 | 198 << 8 | 198,
    0xff << 24 | 123 << 16 | 123 << 8 | 123,
    0xff << 24 | 66 << 16 | 66 << 8 | 66,
    0xff << 24 | 173 << 16 | 173 << 8 | 173,
    0xff << 24 | 148 << 16 | 148 << 8 | 148,
    0xff << 24 | 0 << 16 | 0 << 8 | 0,
    0xff << 24 | 16 << 16 | 16 << 8 | 16,
    0xff << 24 | 206 << 16 | 206 << 8 | 206,
    0xff << 24 | 74 << 16 | 74 << 8 | 74,
    0xff << 24 | 140 << 16 | 140 << 8 | 140,
    0xff << 24 | 181 << 16 | 181 << 8 | 181,
    0xff << 24 | 57 << 16 | 57 << 8 | 57,
    0xff << 24 | 99 << 16 | 99 << 8 | 99
};
```

Fig 10C